

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (canceled)

8-29. (canceled)

30. (new) A device for measuring fluids in a body, comprising:

a structure having an inlet portion, an access portion, and an outlet portion, the access portion being implantable in the body when the device measures the fluids in the body and being in fluid communication between the inlet portion and the outlet portion, wherein the access portion has a fluid channel in which a dialysis fluid flows from the inlet portion to the outlet portion whereby constituents of the fluids in the body are picked up by the dialysis fluid flowing through the access portion; and

a sensor being arranged in the fluid channel in vicinity of the outlet portion, the sensor being disposed outside of the body when the access portion is implanted in the body to measure the fluids in the body.

31. (new) The device of claim 30, wherein the sensor is arranged such that the sensor is removable.

32. (new) The device of claim 30, further comprising a valve, the valve being arranged in the fluid channel in the vicinity of the outlet portion for preventing a reverse flow of the dialysis fluid from the sensor into the access portion.

33. (new) The device of claim 30, wherein the fluid channel is formed by a supply tube and a discharge tube, the supply tube is in fluid communication with the inlet portion whereby the dialysis fluid flows from the inlet portion to the supply tube, the discharge tube is in fluid

communication with the outlet portion whereby the dialysis fluid flows from the discharge tube to the outlet portion, and the supply tube and the discharge tube are connected to each other whereby the dialysis fluid flows from the supply tube to the discharge tube.

34. (new) The device of claim 30, wherein the access portion is surrounded by a membrane through which the constituents of the fluids in the body are picked up by the dialysis fluid flowing through the access portion.

35. (new) The device of claim 30, further comprising a supporting plate for supporting the access portion, wherein when the device measures the fluids in the body, the access portion is implanted in the body, and the supporting plate is disposed outside the body between the body and the inlet portion.

36. (new) The device of claim 30, further comprising a supporting plate for supporting the access portion, wherein when the device measures the fluids in the body, the access portion is implanted in the body, and the supporting plate is disposed outside the body between the body and the outlet portion.

37. (new) The device of claim 30, further comprising a supporting plate for supporting the access portion, wherein when the device measures the fluids in the body, the access portion is implanted in the body, and the supporting plate is disposed outside the body between the body and the inlet and outlet portions.